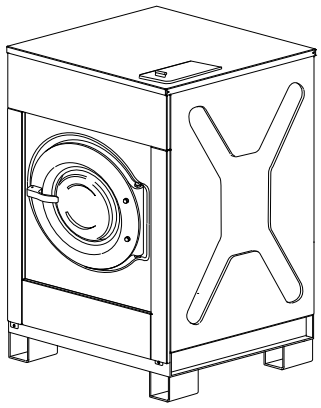
Washer-Extractors

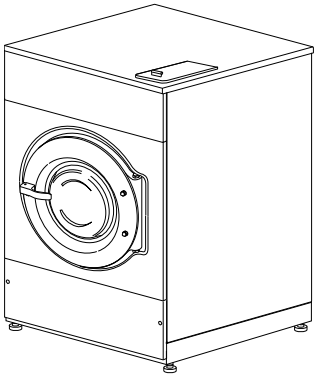
Cabinet Freestanding

Refer to Page 7 for Model Identification

Operation/Maintenance



CFD28C_SVG



CFD29C_SVG

Original Instructions
Keep These Instructions for Future Reference.
(If this machine changes ownership, this manual must accompany machine.)

Alliance Laundry Systems

www.alliancelaundry.com

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Safety Information

Explanation of Safety Messages

Precautionary statements [“DANGER,” “WARNING,” and “CAUTION”], followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

DANGER

Indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.

WARNING

Indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.

CAUTION

Indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.

Additional precautionary statements [“IMPORTANT” and “NOTE”] are followed by specific instructions.

IMPORTANT: The word “IMPORTANT” is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word “NOTE” is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

Important Safety Instructions

WARNING

To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:

W023

- Read all instructions before using the washer.
- Install the washer according the INSTALLATION instructions. Refer to the GROUNDING instructions in the INSTALLATION manual for the proper grounding of the washer. All connections for water, drain, electrical power and grounding must comply with local codes and be made by licensed personnel when required. It is recommended that the machine be installed by qualified technicians.
- Do not install or store the washer where it will be exposed to water and/or weather.
- To prevent fire and explosion, keep the area around machine free from flammable and combustible products. Do not add the following substances or textiles containing traces of the following substances to the wash water: gasoline, kerosene, waxes, cooking oils, vegetable oils, machine oils, dry-cleaning solvents, flammable chemicals, thinners, or other flammable or explosive substances. These substances give off vapors that could ignite, explode or cause the fabric to catch fire by itself.
- Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable, do not smoke or use an open flame during this time.
- To reduce the risk of an electric shock or fire, DO NOT use an extension cord or an adapter to connect the washer to the electrical power source.
- Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. This appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance. This is a safety rule for all appliances.
- DO NOT reach and/or climb into the tub or onto the washer, ESPECIALLY if the wash drum is moving. This is an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
- Never operate the washer with any guards, panels and/or parts removed or broken. DO NOT bypass any safety devices or tamper with the controls.
- Use washer only for its intended purpose, washing textiles. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the basket or tub.
- Use only low-sudsing, no-foaming types of commercial detergent. Be aware that hazardous chemicals may be present. Wear hand and eye protection when adding detergents and chemicals. Always read and follow manufacturer’s instructions on packages of laundry and cleaning aids. Heed all

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warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times [preferably in a locked cabinet].

- Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
- Always follow the fabric care instructions supplied by the textile manufacturer.
- Loading door MUST BE CLOSED any time the washer is to fill, tumble or spin. DO NOT bypass the loading door switch by permitting the washer to operate with the loading door open. Do not attempt to open the door until the washer has drained and all moving parts have stopped.
- Be aware that hot water is used to flush the supply dispenser. Avoid opening the dispenser lid while the machine is running.
- Do not attach anything to the supply dispenser's nozzles, if applicable. The air gap must be maintained.
- Do not operate the machine without the water reuse plug or water reuse system in place, if applicable.
- Be sure water connections have a shut-off valve and that fill hose connections are tight. CLOSE the shut-off valves at the end of each wash day.
- Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
- DANGER: Before inspecting or servicing machine, power supply must be turned OFF. The servicer needs to wait for at least 5 minutes after turning the power OFF and needs to check for residual voltage with a voltage meter. The inverter capacitor or EMC filter remains charged with high voltage for some time after powering OFF. This is an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
- Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out. ALWAYS disconnect the washer from electrical, power and water supplies before attempting any service.
- Disconnect the power by turning off the circuit breaker or by unplugging the machine. Replace worn power cords.
- Before the washer is removed from service or discarded, remove the door to the washing compartment.
- Failure to install, maintain, and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining, or operating the washer.

Any problems or conditions not understood should be reported to the dealer, distributor, service agent or the manufacturer.

WARNING

Machine installations must comply with minimum specifications and requirements stated in the applicable Installation Manual, any applicable municipal building codes, water supply requirements, electrical wiring regulations and any other relevant statutory regulations. Due to varied requirements and applicable local codes, this machine must be installed, adjusted, and serviced by qualified maintenance personnel familiar with applicable local codes and the construction and operation of this type of machinery. They must also be familiar with the potential hazards involved. Failure to observe this warning may result in personal injury, property damage, and/or equipment damage, and will void the warranty.

W820

IMPORTANT: Ensure that the machine is installed on a level floor of sufficient strength. Ensure that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.

WARNING

Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.

SW014

Safety Decals

Safety decals appear at crucial locations on the machine. Failure to maintain legible safety decals could result in injury to the operator or service technician.

Use manufacturer-authorized spare parts to avoid safety hazards.

Operator Safety

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WARNING

NEVER insert hands or objects into basket until it has completely stopped. Doing so could result in serious injury.

SW012

The following maintenance checks must be performed daily:

1. Verify that all warning labels are present and legible, replace as necessary.
2. Check door interlock before starting operation of the machine:
   a. Attempt to start the machine with the door open. The machine should not start.
   b. Close the door without locking it and start the machine. The machine should not start.
   c. Attempt to open the door while a cycle is in progress. The door should not open.

If the door lock and interlock are not functioning properly, disconnect power and call a service technician.

3. Do not attempt to operate the machine if any of the following conditions are present:
   a. The door does not remain securely locked during the entire cycle.
   b. Excessively high water level is evident.
   c. Machine is not connected to a properly grounded circuit.

Do not bypass any safety devices in the machine.

WARNING

Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.

W728

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Introduction

Model Identification

Information in this manual is applicable to these models:

HHF455	HXG100	HXY030	SXA195	SXU165	UX35	UXN305
HHF575	HXG165	HXY035	SXA235	SXU195	UX45	UXR018
HHF730	HXG235	HXY045	SXA305	SXU235	UX55	UXR025
HHF900	HXG305	HXY055	SXE018	SXU305	UX75	UXR035
HX18	HXN075	HXY075	SXE025	SXW075	UX100	UXR055
HX25	HXN100	HXZ075	SXE035	SXW100	UX135	UXR075
HX30	HXN135	HXZ100	SXE055	SXW165	UX165	UXU075
HX35	HXN165	HXZ165	SXE075	SXW235	UXA075	UXU100
HX45	HXN235	HXZ235	SXG075	SXW305	UXA100	UXU165
HX55	HXN305	HXZ305	SXG100	SXY018	UXA165	UXU195
HX75	HXR018	SHF455	SXG165	SXY025	UXA235	UXU235
HX100	HXR025	SHF575	SXG235	SXY030	UXA305	UXU305
HX135	HXR035	SHF730	SXG305	SXY035	UXE018	UXW075
HX165	HXR055	SHF900	SX200	SXY045	UXE025	UXW100
HX200	HXR075	SX18	SXN075	SXY055	UXE035	UXW165
HXA075	HXU075	SX25	SXN100	SXY075	UXE055	UXW235
HXA100	HXU100	SX30	SXN135	SXZ075	UXE075	UXW305
HXA135	HXU165	SX35	SXN165	SXZ100	UXG075	UXY018
HXA165	HXU195	SX45	SXN235	SXZ165	UXG100	UXY025
HXA195	HXU235	SX55	SXN305	SXZ235	UXG165	UXY035
HXA235	HXU305	SX75	SXR018	SXZ305	UXG235	UXY055
HXA305	HXW075	SX100	SXR025	UHF455	UXG305	UXY075
HXE018	HXW100	SX135	SXR035	UHF575	UX200	UXZ075
HXE025	HXW165	SX165	SXR055	UHF730	UXN075	UXZ100
HXE035	HXW235	SXA075	SXR075	UHF900	UXN100	UXZ165
HXE055	HXW305	SXA100	SXU075	UX18	UXN165	UXZ235
HXE075	HXY018	SXA135	SXU100	UX25	UXN235	UXZ305
HXG075	HXY025	SXA165				

Delivery Inspection

Upon delivery, visually inspect crate, protective cover, and unit for any visible shipping damage. If signs of possible damage are evident, have the carrier note the condition on the shipping papers before the shipping receipt is signed, or advise the carrier of the condition as soon as it is discovered.

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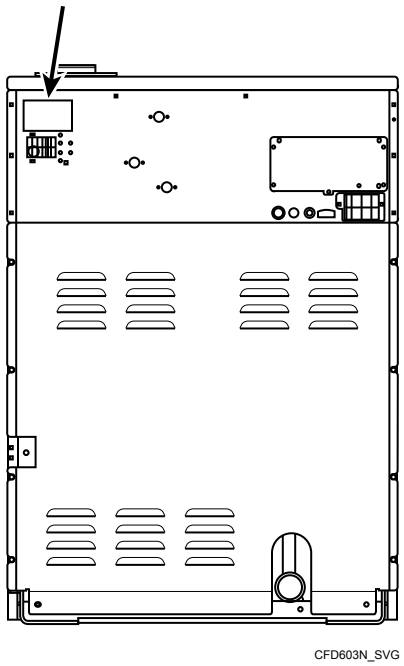
Nameplate Location

The nameplate is located on the back of the machine. Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance. Refer to *Figure 1* .



1. Nameplate

Figure 1

Replacement Parts

If literature or replacement parts are required, contact the source from which the machine was purchased or contact Alliance Laundry Systems at +1 (920) 748-3950 for the name and address of the nearest authorized parts distributor.

Customer Service

For technical assistance, contact your local distributor or contact:

Alliance Laundry Systems
Shepard Street
P.O. Box 990
Ripon, WI 54971-0990
U.S.A.
www.alliancelaundry.com
Phone: +1 (920) 748-3121 Ripon, Wisconsin
Alliance International: +32 56 41 20 54 Wevelgem, Belgium

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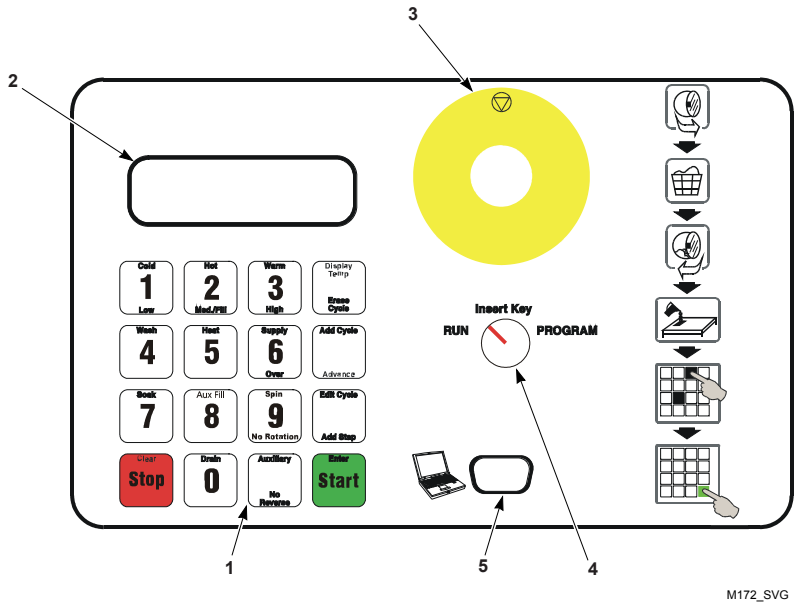
Operation

WE-8 Control

WE-8 Control Panel



1. Keypad
2. Display
3. Emergency Stop Button
4. Key Switch
5. Serial Port

Figure 2

Load the Machine

1. For 18 - 75 pound models: Pull the door handle towards you to open the door. Some models may have a door handle with a button that must be pressed.
2. For 100 - 200 pound models: Push on the doorlock system to open the door.
3. Load the drum to the specified capacity.
4. Close the door by pushing the door handle towards the machine.

Start a Program

1. After powering up the control, “Cycle 00” will show on the display.
2. Press the desired program number (example: program 23).
   a. The display will show the cycle (example: “Cycle 23”).
3. Press “Start” to run the program.
   a. If the program does not exist, the display will show “No Cycle 23”. See program mode to create a program.
   b. If the door is not closed, the display will show “Please close door”. The program will start once the door is closed.
   c. If the door is closed and the program exists, the program will start. The name of the program will show on the display for 2 seconds and the machine will start.

When the machine is started, the display will show the following information:

S01: Step 1

C23: Program number 23

50M55: The remaining time of the cycle.

80°F: The temperature of the bath that is programmed.

Delayed Start

1. Select the cycle you want to start.

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a. Press and hold the Start keypad for at least 3 seconds.

2. Enter the number of hours to delay start.
3. Press the Start keypad.
4. Enter the number of minutes to delay start.
5. Close the door.
6. Press the Start keypad.

The delayed start time is shown in the display.

Special Options in Run Mode

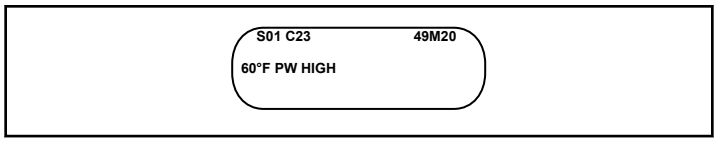

Figure 3

High: The water level in step 1 that is programmed. Refer to *Figure 3* .

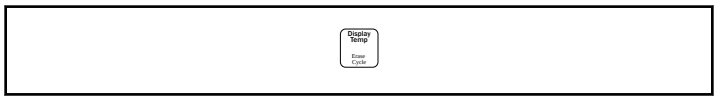

Figure 4

1. While the machine is running, press the “Display Temp” button. . Refer to *Figure 4* .

Level: 2.5 cm: Water level in the bath. If the machine is filling with water, this value will increase. If the machine is draining, this value will decrease.

62°F: The water temperature.

40 rpm: The measured rpm of the drum.

L: Rotation direction of the drum

L (left), R (right)

2. Press the “Display Temp” button to go back.Refer to *Figure 4* .

Advance Mode

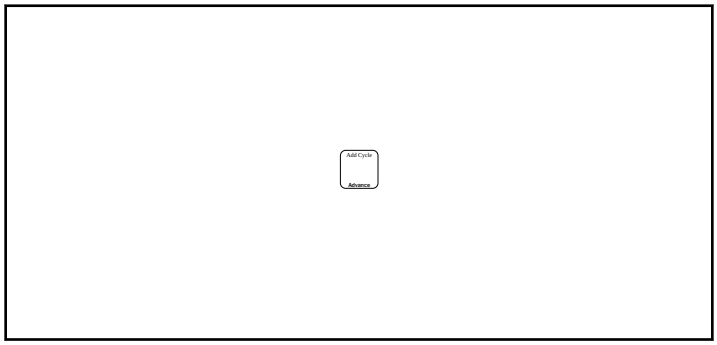

Figure 5

Press the “Advance” button to proceed to the next step in the program. Refer to *Figure 5* .

Chemical Hold Feature

Chemical supply injection can be paused. Refer to section Setup of the Chemical Hold Feature in Programming manual.

Stop the Machine

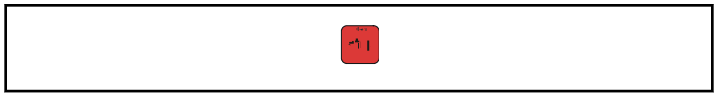

Figure 6

Press the “Stop” button. Refer to *Figure 6* .

If there is water in the machine, the display will show “Waterlevel xx.x cm” while the machine is draining the water.

If the machine is spinning, the display will show “Coast down”.

When the water is out and the drum has stopped moving, the display will flash between “Please open door” and “Done cycle 23” until the door is open.

Error Messages

Door Error

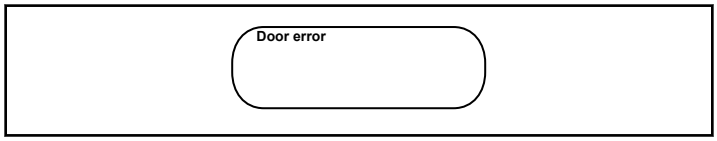

Figure 7

If the door is closed after start, the control will try to lock the door. If the door will not lock, “Door error” will display. Refer to *Figure 7* .

Possible Faults:

- Wiring is not connected properly.
- Coil to lock the door has failed.
- Door lock has a mechanical problem.

Fill Alarm

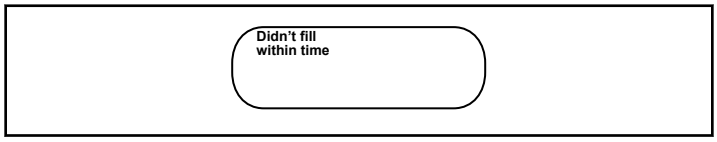

Figure 8

If machine does not reach programmed water level within time programmed for step, a fill alarm occurs. Machine will continue filling and agitating, while sounding beeper and flashing “Didn’t fill within time” on display. Refer to *Figure 8* .

Condition will continue for up to two (2) minutes. If programmed water level is reached before two minute fill alarm time ends, condition ends, and machine resumes operation.

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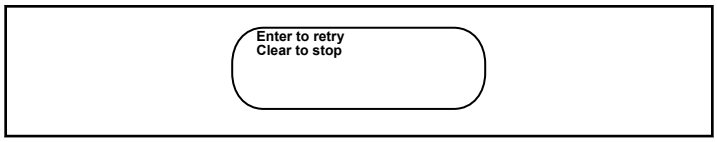

Figure 9

If Enter (START) key is pressed during fill alarm, condition will end and step will start over. If programmed water level is not reached within programmed step time, fill alarm will occur again Refer to *Figure 9* .

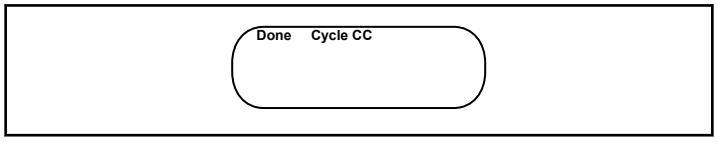

Figure 10

If Clear (STOP) key is pressed while fill alarm is in effect, cycle will end, and door will unlock. Refer to *Figure 10* .

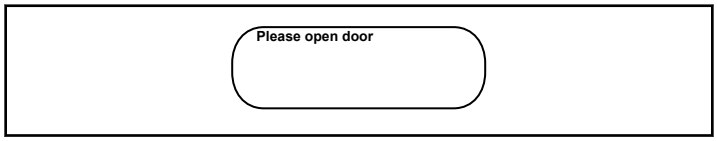

Figure 11

If no action is taken, and fill level is not reached within two (2) minute alarm time limit, cycle will end and door can be unlocked (provided no water level is sensed). Refer to *Figure 11* .

Whenever a fill alarm occurs during a cycle, display will repeat the messages shown on the left at end of stop routine, before door is opened, to indicate alarm condition occurred in cycle.

Possible Faults:

- Wiring is disconnected.
- Broken inlet valve.
- Problem with water supply.
- Inlet valves are blocked by dirt.
- The water pressure hose is broken or not connected properly.

Drain Alarm

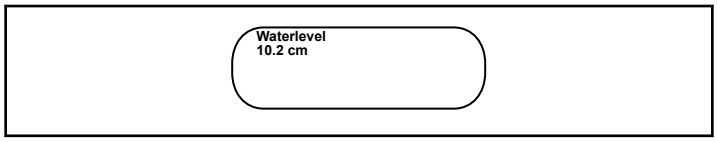

Figure 12

If drain step is NOT followed by a spin and if machine does not empty within the time programmed for drain step, a drain alarm occurs. Display will read “Didn’t drain within time.”

During drain alarm, beeper sounds on and off, and machine continues attempting to drain. If machine does not empty, condition continues.

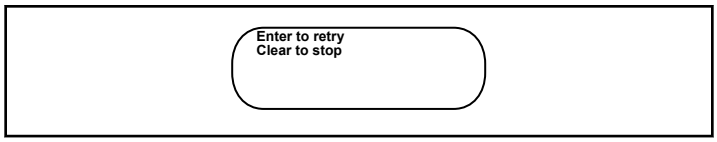

Figure 13

If Enter (START) key is pressed, drain alarm ends, and drain step starts over at beginning. If machine has not emptied when drain step time expires, alarm occurs again.

If Clear (STOP) key is pressed while drain alarm is in effect, display shows water level (inches or centimeters), but otherwise takes no new action since machine has not emptied.

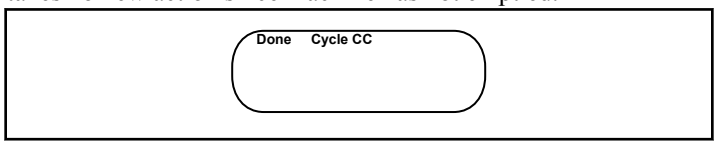

Figure 14

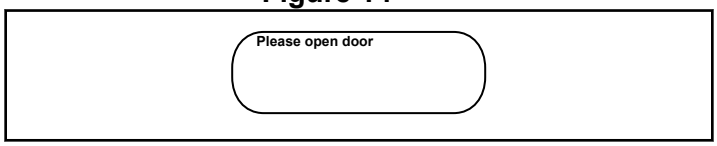

Figure 15

When cycle ends, display will briefly repeat the messages shown on the left until door is opened (to indicate that an alarm condition occurred in the cycle).

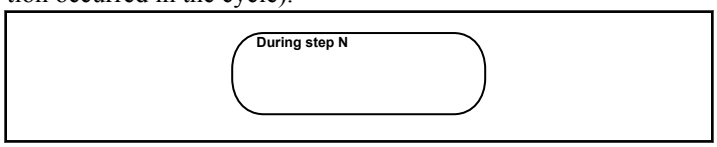

Figure 16

If machine drains during a spin step prior to accelerating into high speed and if machine has not emptied within approximately two (2) minutes of starting drain procedure, a drain alarm occurs. There is no rotation during this alarm; messages displayed are identical to drain alarm during a drain step not followed by a spin.

If Enter (START) key is pressed during drain alarm in a spin step, the alarm will stop and the spin step will start over. Machine will rotate at wash speed forward, then transition to distribution speed.

After drain begins (i.e. drain open, pumping begins), if two (2) additional minutes elapse, alarm occurs again.

Temperature Sensor Error

The temperature was never reached in this cycle, indicating a problem with heating, and the control shows “Temperature sensor error”.

Possible Faults:

- Bad temperature probe.

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- Wiring to electrical or steam heating relay has failed.
- Electrical heating elements or steam valve is broken.

NOTE: If the cycle aborted, it may be due to a temperature sensor error.

Rotation Sensor Error

The control did not sense any pulses or the control sensed wrong pulses from the RPM Sensor.

Possible Faults:

- Broken RPM Sensor.
- Distance from RPM Sensor to pulley is too large (greater than 2 mm).
- Bad motor.
- Broken V-belt.
- Problems with the inverter.
- Wiring disconnected.

Speed Detection Error

An error occurred at the end of a spin stop or during coast down, where the RPM Sensor suddenly failed to give output pulses.

Possible Faults:

- Broken RPM Sensor.
- RPM Sensor dislocated (distance from RPM Sensor to pulley is greater than 2 mm).
- Broken V-belt.
- Wiring disconnected.

Cycle Memory Error

The cycle memory is corrupt and contains unknown information.

Possible fault:

Unknown component found in wash cycles.

B-Series Control

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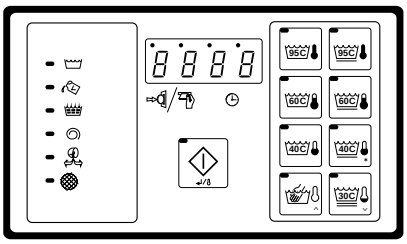
B-Series Control Panel



1. Cycle 1
2. Cycle 2
3. Cycle 3
4. Cycle 4/Up Edit
5. Cycle 5
6. Cycle 6
7. Cycle 7
8. Cycle 8/Down Edit
9. START (enter) Keypad
10. LED (not in use)
11. Door Step LED
12. Spin Step LED
13. Rinse Step LED
14. Add Bleach LED
15. Decimal for Pricing
16. Decimals for Pricing

Figure 17

If the version of control in machine is capable of reading temperature, pressing the START (enter) keypad while a wash is running will cause the display to show temperature and will revert to minutes remaining after several seconds.

Operating Instructions - B-Series Control

1. Open the door by pulling the door handle toward you.
2. Load the machine. Refer to *Figure 18* .

Load the washer-extractor to full capacity whenever possible, but do not exceed the rated dry-weight capacity of the machine if the fabric to be washed is dense, closely woven or heavily soiled.

Overloading the machine can result in an inferior wash. The operator may need to experiment to determine the optimum load size based on the fabric content, soil content and level of cleanliness required.

Do not underload the machine. Underloading can result in out-of-balance conditions and may lead to premature bearing and seal failure.

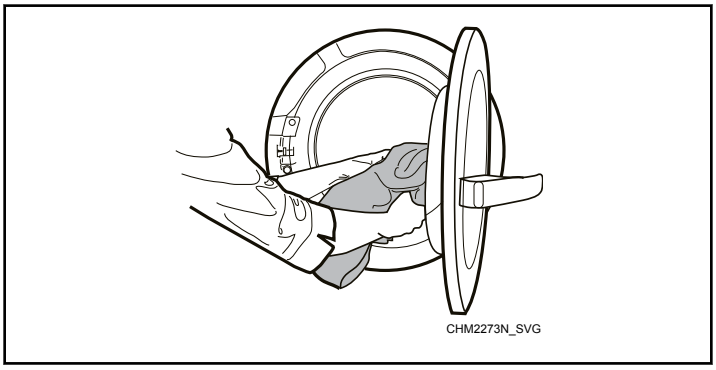


Figure 18

3. Close the door by pushing the door handle toward the machine. Refer to *Figure 19* .

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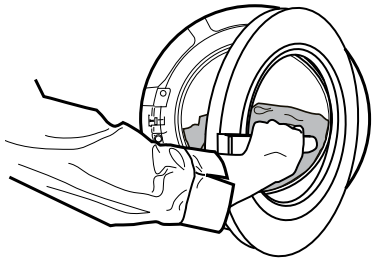


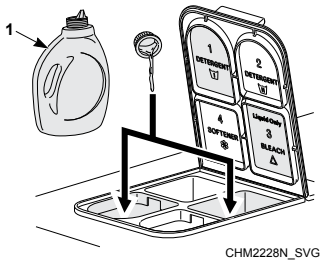
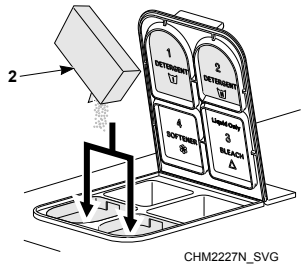
Figure 19

4. Add supplies to the supply dispenser. Refer to *Table 1* .

a. Detergent:
- Liquid - Compartment 1 (prewash) + Compartment 3
- Powder - Compartment 1 (prewash) + Compartment 2

b. Bleach:
- Liquid - Compartment 3
- Powder - Compartment 2

c. Softener:
- Liquid - Compartment 4

a. DETERGENT
 1. Liquid Detergent
 2. Powder Detergent
b. BLEACH

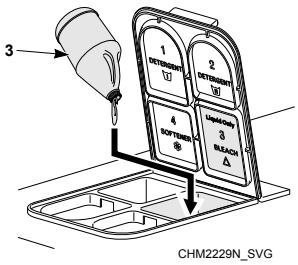
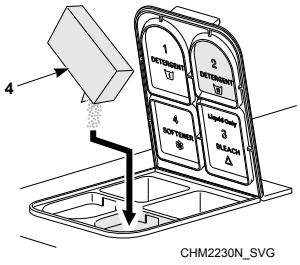
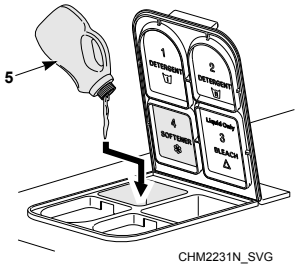
 3. Liquid Bleach
 4. Powder Bleach
c. SOFTENER
 5. Liquid Softener

Table 1

5. Select a cycle by pressing a cycle number keypad. Refer to *Figure 20* .

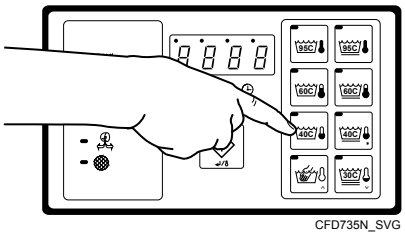


Figure 20

6. Make payment. Refer to *Figure 21* .

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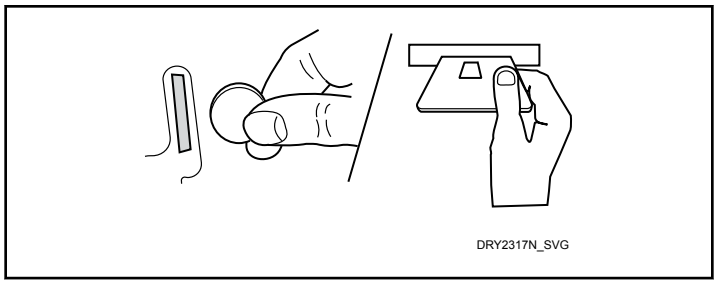

Figure 21

7. Start the cycle by pressing the START keypad. Refer to *Figure 22* .

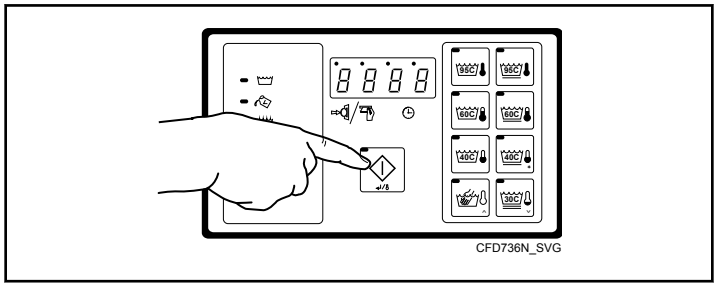

Figure 22

The cycle will continue until its completion. When the cycle is complete, the door is unlocked.

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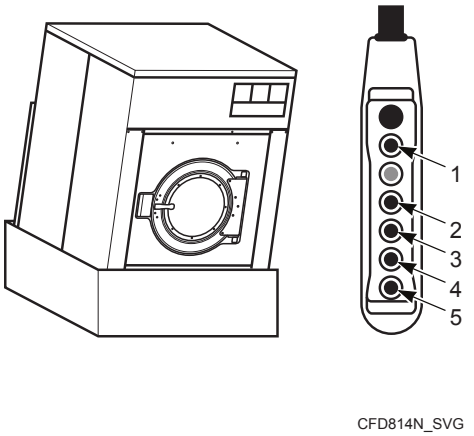
Tilting Option

The operator controls the tilting and basket rotation using a pendant control.

The pendant control has a safety button, which the operator must press and hold while pressing the other buttons on the pendant control, which include tilt forward (up), tilt backward (down), right basket rotation (forward) and left backet rotation (reverse).

Operation

When the cycle has finished, the control unlocks the door. The tilt screen is shown in the control's display. Refer to *Figure 23* . Open the door and lock it in place using the special system mounted on the door hinge.



1. Safety
2. Up
3. Down
4. Forward
5. Reverse

Figure 23

The operator can then unload the machine using the pendant control. The machine's keypad is not used during this operation.

Using the pendant control, tilt the machine forward and rotate the basket manually. After the machine has been unloaded, return the machine to the level position. After the machine has been returned to the level position, press the Stop button on the machine's keypad to return the control to the ready mode.

NOTE: If attempting to start a cycle while the machine is not in the level position, the tilt screen will be shown. Refer to *Figure 23* . Using the pendant control, return the machine to the level position before attempting to start a cycle.

NOTE: If the machine senses that it is not level during a cycle, the control will end the cycle and "Error 61: Home switch open while washing" will be shown in the display.

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Maintenance

WARNING

Sharp edges can cause personal injury. Wear safety glasses and gloves, use proper tools and provide lighting when handling sheet metal parts.

W366R1

IMPORTANT: Replace all panels that are removed to perform service and maintenance procedures. Do not operate the machine with missing guards or with broken or missing parts. Do not bypass any safety devices.

Daily

WARNING

Do not spray the machine with water. Short circuiting and serious damage may result.

W782

IMPORTANT: Door lock should be checked daily to ensure proper operation. Also check that all safety and instruction stickers are on the machine. Any missing or illegible safety instructions stickers should be replaced immediately.

Beginning of Day

1. Check door interlock before starting operation:
   a. Attempt to start the machine with the door open. The machine should not start.
   b. Close the door without locking it and start the machine. The machine should not start.
   c. Attempt to open the door while the cycle is in progress. The door should not open.

If the door lock and interlock are not functioning properly, disconnect power and call a service technician.

IMPORTANT: Door lock should be checked daily to ensure proper operation. Also, check that all safety and instruction stickers are on the machine. Replace as necessary.

2. Inspect water inlet valve hose connections on the back of the machine for leaks.
3. Inspect steam hose connections for leaks (where applicable).
4. Inspect all chemical inlets, lines and connections for leaks.

WARNING

To reduce the risk of electrical shock, serious injury or death, disconnect the electrical power to washer-extractor before examining the wiring.

W636

5. Verify that insulation is intact on all external wires and that all connections are secure. If bare wire is evident, call a service technician.

End of Day

1. Clean the door gasket of residual detergent and all foreign matter.
2. Clean the door glass with a damp cloth.
3. Clean automatic supply dispenser lid and general area.
4. Clean the machine's top, front and side panels with mild detergent. Rinse with clean water. DO NOT use products that contain alcohol on the control panel.
5. Inspect and clean basket.
6. Clean the inverter drive box filter(s) weekly or more frequently as needed [where applicable]:
   a. Wash the filter with warm water and allow filter to air dry. As an alternative, the filter may be vacuumed clean.

NOTE: Unload the machine promptly after each completed cycle to prevent moisture buildup. Leave loading door open after each completed cycle to allow moisture to evaporate.

Weekly

1. Check the machine for leaks.
   a. Start an unloaded cycle to fill the machine.
   b. Verify that door and door gasket do not leak.
   c. Verify that the drain valve is operating and that the drain system is free from obstruction. If water does not leak out during the first wash segment, the drain valve is closed and functioning properly.
2. Clean the inverter drive box filter(s) weekly or more frequently as needed [where applicable]:
   a. Wash the filter with warm water and allow filter to air dry. As an alternative, the filter may be vacuumed clean.

IMPORTANT: The control module cover and fan filter must be in place for the fan to properly cool the inverter drive. Failure to observe this warning will void the warranty and could lead to expensive inverter drive repair.

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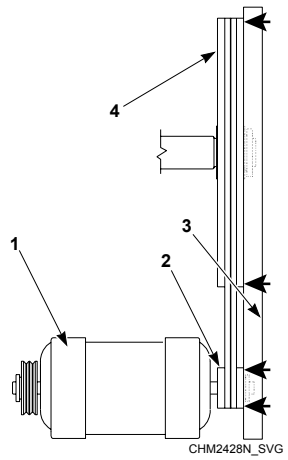
3. On machines equipped with an automatic chemical supply system, check chemical connections by inspecting all connections and chemical hoses for leaks or cracks.

IMPORTANT: Chemical leaks can quickly cause permanent damage to the machine components and structure.

Monthly

NOTE: Disconnect power to the machine at its source before performing the monthly maintenance procedures.

1. Check belt(s) require replacement or adjustment. Call a qualified service technician in either case.
   a. Check belt(s) for uneven wear and frayed edges.
   b. For groove-pulley drive systems, verify alignment by placing a straightedge across both pulley faces. The straightedge should make contact with the pulleys in four places. Refer to *Figure 24* . After making necessary adjustments, torque the upper spring tensioning jam nut to 20.6 ± 2 ft.-lbs.



1. Motor
2. Motor Pulley
3. Straightedge
4. Basket Pulley

Figure 24

   c. Verify belt tension. Refer to *Belt Tension*.

Belt Tension		
Product Family	**Model**	**Belt Tension (lbs.)**
Cabinet Hardmount	14, 18, 25, 65, 75 and 100	56-73

Belt Tension		
Product Family	**Model**	**Belt Tension (lbs.)**
	30, 35, 135 and 165	77-100
	33, 40, 150 and 185	116-151
	55 and 235	119-154
	75 and 305	149-194
	90 and 400	112-149
Cabinet Freestanding	12, 14, 18, 25, 60, 65, 75 and 100	106-172
	30, 35, 135 and 165	71-139
	55 and 235	185-236
	75 and 305	240-266
	455 and 575	90-103
	730 and 900	113-148

Table 2

2. Check overflow hose and drain hose for leaks.
3. Check the supply dispenser hoses and hose connections.
4. Clean inlet hose filter screens:
   a. Turn water off and allow valve to cool, if necessary.
   b. Unscrew inlet hose and remove filter screen.
   c. Clean with soapy water and reinstall. Replace if worn or damaged.

Every Two Months

For 100 lb. (455 l), 135 lb. (575 l), 165 lb. (730 l) and 200 lb. (900 l) Cabinet Freestanding models only, insert a small amount of type EP2 grease into the grease injection ports located on the back of the machine. Refer to *Figure 25* .

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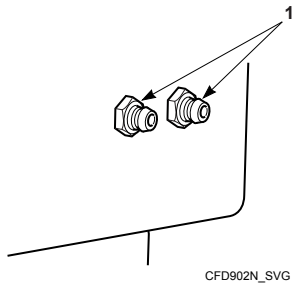


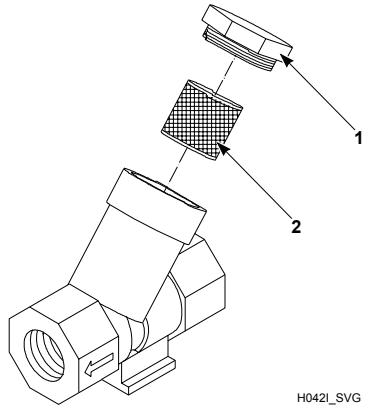
1. Grease Injection Ports

Figure 25

Quarterly

NOTE: Disconnect power to the machine at its source before performing the quarterly maintenance procedures.

1. Tighten door hinges and fasteners, if necessary.
2. Tighten anchor bolts, if necessary.
3. Verify that the drain motor shield is in place and secure, if so equipped.
4. Clean customer-supplied steam filter, where applicable. Refer to *Figure 26* .
   a. Turn off steam supply and allow time for the valve to cool.
   b. Unscrew cap.
   c. Remove element and clean.
   d. Replace element and cap.



1. Cap
2. Steam Filter Element

Figure 26

5. Tighten motor mounting bolt locknuts and bearing bolt locknuts.
6. Vacuum lint from motor vents.
7. Clean all electronic boards of moisture and dust with canned air.
8. Verify the insulation is intact on all external wires and that all connections are secure. If bare wire is evident, call a service technician.
9. Clean inverter drive cooling fan blades [where applicable].

Annually

For 75, 90, 305 and 400 models only, replace the machine's automatic lubricator.

Care of Stainless Steel

- Remove dirt and grease with detergent and water. Thoroughly rinse and dry after washing.
- Avoid contact with dissimilar metals to prevent galvanic corrosion when salty or acidic solutions are present.
- Do not allow salty or acidic solutions to evaporate and dry on stainless steel. Wipe clean of any residues.
- Rub in the direction of the polish lines or "grain" of the stainless steel to avoid scratch marks when using abrasive cleaners. Use stainless steel wool or soft, non-metal bristle brushes. Do not use ordinary steel wool or steel brushes.
- If the stainless steel appears to be rusting, the source of the rust may be an iron or steel part not made of stainless steel, such as a nail or screw.
- Remove discoloration or heat tint from overheating by scouring with a powder or by employing special chemical solutions.
- Do not leave sterilizing solutions on stainless steel equipment for prolonged periods of time.
- When an external chemical supply is used, ensure no siphoning of chemicals occurs when the machine is not in use. Highly concentrated chemicals can cause severe damage to stainless steel and other components within the machine. Damage of this kind is not covered by the manufacturer's warranty. Locate the pump and tubing below the machines's injection point to prevent siphoning of chemicals into the machine.

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